

Title (en)
HETEROARYL-CYCLIC ACETALS

Title (de)
HETEROARYL-ZYKLISCHE ACETALE

Title (fr)
ACETALS HETEROARYL-CYCLIQUES

Publication
EP 1140916 B1 20021113 (EN)

Application
EP 99962334 A 19991216

Priority

- GB 9904283 W 19991216
- GB 9827721 A 19981216
- US 12242599 P 19990302

Abstract (en)
[origin: US7479501B2] Compounds of formula (I) are described in which Het is a five or six membered heteroaromatic ring of the formula in which one of R1 and R2 is optionally substituted heteroaryl and the other is optionally substituted heteroaryl or optionally substituted aryl; X1 is a bond, X3 and X4 are each independently N or C and X2 and X5 are independently CH, N, NH, O or S; or X3 and X4 are C, one of X1, X2 and X5 is N and the others are N or CH; but excluding compounds in which X1 is a bond, one of X2 and X5 is N and the other is NH and X3 and X4 are both C; R3 represents a group -L1-R6; R4 represents hydrogen, alkyl or hydroxyalkyl; or R3 and R4, when attached to the same carbon atom, may form with the said carbon atom a cycloalkyl, cycloalkenyl or heterocycloalkyl ring or a group C-CH2; R5 represents hydrogen or alkyl; and m is zero or an integer 1 or 2; and N-oxides thereof, and their prodrugs; and pharmaceutically acceptable salts and solvates of compounds of formula (I) and N-oxides thereof, and their prodrugs. The compounds are TNF inhibitors and are useful as pharmaceuticals.

IPC 1-7
C07D 405/14; **C07D 413/14**; **C07D 409/14**; **A61K 31/44**; **A61P 35/00**

IPC 8 full level
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CPC (source: EP US)
A61P 3/04 (2018.01 - EP); **A61P 3/10** (2018.01 - EP); **A61P 9/10** (2018.01 - EP); **A61P 11/06** (2018.01 - EP); **A61P 19/02** (2018.01 - EP); **A61P 27/02** (2018.01 - EP); **A61P 35/00** (2018.01 - EP); **A61P 43/00** (2018.01 - EP); **C07D 405/14** (2013.01 - EP US); **C07D 409/14** (2013.01 - EP US); **C07D 413/14** (2013.01 - EP US)

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WO2013050437A1; EP1224207B1

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AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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WO 0035911 A1 20000622; AT E227719 T1 20021115; AU 1871100 A 20000703; AU 768259 B2 20031204; CA 2355075 A1 20000622; CA 2355075 C 20091208; DE 69903976 D1 20021219; DE 69903976 T2 20030724; DK 1140916 T3 20030310; EP 1140916 A1 20011010; EP 1140916 B1 20021113; ES 2188280 T3 20030616; JP 2002532495 A 20021002; JP 4634613 B2 20110216; PT 1140916 E 20030331; US 2005090501 A1 20050428; US 7479501 B2 20090120

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